Performance Data Sheet

RKA5486YXD

General Information

Model	RKA5486YXD	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	2290	2350					
	Watts	424	428					
	Amps	1.99	2.00					
	Lb/h	34.3	34.7					
-10	Btu/h	2690	2700	2700				
	Watts	439	448	458				
	Amps	2.07	2.10	2.13				
	Lb/h	39.4	39.6	39.8				
-5	Btu/h	3170	3120	3070	3020			
	Watts	452	467	481	496			
	Amps	2.13	2.19	2.24	2.30			
	Lb/h	45.3	45.3	45.4	45.4			
0	Btu/h	3710	3610	3500	3390	3280		
	Watts	464	483	502	522	542		
	Amps	2.18	2.26	2.34	2.42	2.50		
	Lb/h	51.9	51.8	51.7	51.5	51.3		
5	Btu/h	4330	4160	4000	3840	3670		
	Watts	473	497	522	547	572		
	Amps	2.22	2.32	2.42	2.53	2.63		
	Lb/h	59.3	59.0	58.7	58.4	58.0		
10	Btu/h	5010	4790	4570	4350	4130	3910	3690
	Watts	479	509	539	569	599	630	661
	Amps	2.25	2.37	2.50	2.62	2.75	2.88	3.02
	Lb/h	67.5	67.0	66.6	66.1	65.5	64.9	64.3
15	Btu/h	5770	5500	5220	4940	4660	4380	4100
	Watts	484	519	554	589	625	660	696
	Amps	2.27	2.41	2.56	2.71	2.86	3.01	3.17
	Lb/h	76.5	75.9	75.2	74.5	73.8	73.0	72.2
20	Btu/h	6610	6270	5940	5600	5270	4930	4590
	Watts	487	527	567	607	648	689	730
	Amps	2.28	2.44	2.61	2.78	2.95	3.12	3.30
	Lb/h	86.3	85.5	84.6	83.7	82.8	81.9	80.9

25	Btu/h	7520	7120	6730	6340	5940	5550	5150
	Watts	488	533	578	624	669	715	761
	Amps	2.27	2.46	2.65	2.84	3.03	3.23	3.43
	Lb/h	96.9	95.9	94.9	93.8	92.7	91.6	90.4
30	Btu/h	8500	8050	7600	7140	6690	6240	5790
	Watts	487	537	587	638	689	740	791
	Amps	2.26	2.47	2.68	2.89	3.11	3.32	3.55
	Lb/h	108	107	106	105	103	102	101
35	Btu/h	9560	9050	8540	8030	7520	7000	6490
	Watts	484	539	595	650	706	762	819
	Amps	2.24	2.47	2.70	2.93	3.17	3.41	3.65
	Lb/h	121	119	118	116	115	113	112
40	Btu/h	10700	10100	9560	8990	8420	7840	7270
	Watts	479	539	600	661	722	783	844
	Amps	2.21	2.46	2.71	2.97	3.23	3.49	3.75
	Lb/h	134	132	130	129	127	125	124
45	Btu/h	11900	11300	10700	10000	9390	8760	8130
	Watts	472	538	603	669	735	802	868
	Amps	2.18	2.45	2.72	3.00	3.27	3.55	3.84
	Lb/h	148	146	144	142	140	138	136
50	Btu/h	13200	12500	11800	11100	10400	9760	9060
	Watts	463	534	605	676	747	819	890
	Amps	2.14	2.43	2.72	3.02	3.31	3.61	3.92
	Lb/h	163	160	158	156	154	152	150
55	Btu/h	14600	13800	13100	12300	11600	10800	10100
	Watts	453	529	605	681	757	834	911
	Amps	2.09	2.40	2.71	3.03	3.35	3.67	3.99
	Lb/h	178	176	174	171	169	167	164

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.540021E+03	3.122522E+02	1.607802E+00	5.226309E+01
C2	2.075249E+02	-6.289132E+00	-2.692542E-02	1.704846E+00
C3	-1.037596E+01	1.898542E+00	7.304946E-03	-5.857031E-03
C4	1.510208E+00	-4.217970E-02	-2.150870E-04	1.648726E-02
C5	-1.165833E+00	1.045927E-01	4.536926E-04	-3.991988E-03
C6	2.671813E-03	-6.050111E-04	-6.175134E-06	8.282979E-05
C7	1.295886E-03	3.588558E-05	8.880803E-07	1.011082E-05
C8	-1.093684E-03	2.920376E-06	-4.189433E-07	-1.035480E-05
C9	2.407550E-04	-1.128381E-05	-2.021998E-08	2.968909E-06
C10	-2.951065E-05	6.350224E-06	6.292686E-08	-8.504248E-07

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature